

**Project Design Phase-I
Proposed Solution
Template**

Date	08 October 2022
Team ID	PNT2022TMID13202
Project Name	Project – Analytics For Hospitals' Health-Care Data

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To predict the length of stay of patients .
2.	Idea / Solution description	<ul style="list-style-type: none"> • The length of stay can be predicted using either Fuzzy logic or Tree bagger algorithms. • Along with the algorithm certain parameters like age, stage of disease, progression, etc., are used for prediction. • IBM Cognos is used for analytics purpose.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> • It predicts the result with more accuracy using which overstay can be reduced. • Proper resources and therapy can be provided.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • Patients can get better treatment and care than before. • Length of stay prediction minimize the overflow of patients therefore hospital resource utilization will be maximized. • Reduces expense for treatment.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • This system can be used in all government hospitals, private hospitals and even in small clinics. • Activities – Length of stay prediction. • Key Resource – Medical records . • Bed consumption is low.
6.	Scalability of the Solution	This model will predict the length of stay of all kind of patients.